

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

GENERAL PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

MO-G130000

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

All Outfalls - SIC Codes 0273 and 0921

Flow-through Concentrated Aquatic Animal Production Facilities

This permit authorizes only wastewater, including storm waters, discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

September 19, 2003

Effective Date

September 18, 2008

Expiration Date
MO 780-1481 (7-94)

Stephen M. Mahford, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

Jim Hull, Director of Staff, Clean Water Commission

APPLICABILITY

1. This permit authorizes the discharge from flow-through Concentrated Aquatic Animal Production Facilities (CAAPF). CAAPFs are defined as a hatchery, fish farm or other facility which contains, grows or holds aquatic animals, discharge at least 30 days per year, and which meet the following operational thresholds:
 - a. flow-through facilities which produce aquatic animals in excess of 20,000 pounds per year or which feed at least 5000 pounds during the month of maximum feeding are CAAPFs.
 - b. impoundment or recirculating facilities which produce aquatic animals in excess of 100,000 pounds per year are CAAPFs.
2. Flow through facilities are defined as individual or interconnecting systems of raceways or pools in which constant or near constant flow resulting in discharge is maintained as part of normal operation. Both cold water and warm water aquatic animals may be produced in flow through facilities. Facilities which do not maintain a constant discharge should apply for MO-G13A.
3. Any facility which violates any of the conditions or requirements of this permit may be required to obtain a site specific permit.
4. If at any time the owner of a fish farm/hatchery desires to apply for a site specific NPDES permit, the owner may do so.
5. This permit applies to the production of fish, crawfish, and amphibians. It does not apply to the production of alligators, turtles, or other aquatic species.
6. This permit does not apply to the discharge of any water other than from flow-through production facilities. Manure, mortalities, waste feed, or other solids collected as part of any cleaning processes must be disposed of properly and not discharged into waters of the state. Proper disposal methods include, but are not limited to, land application, composting, or disposal at a permitted wastewater treatment facility.
7. This permit authorizes the use of drugs or chemicals in the farm/hatchery operation that have been approved by the USEPA for use in aquatic environments. USEPA approval is demonstrated on the product label by mandated instructions or precautions for use in aquatic environments. Other drugs or chemicals, including those approved by the USFDA and "Investigational New Animal Drugs", may be used after prior approval from the department. Records of drugs or chemicals used must be maintained. Records must include the name of the chemical, reason for its use, date applied, and amount used at the facility.
8. Drugs or chemicals must be used according to label instructions. In no case shall the discharge of drugs or chemicals result in acute or chronic toxicity in the receiving stream. In the event that the department has evidence of toxicity in a receiving stream, a Whole Effluent Toxicity test may be required to determine the potential for water quality impacts of the drug or chemical.
9. This permit does not authorize CAAPFs which use floating, hanging, or anchored net structures with a hydraulic connection to waters of the state, otherwise known as net pen aquaculture.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 3 of 7	
					PERMIT NUMBER MO-G130000	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Facilities with greater than 20,000 lbs but less than 100,000 lbs of production per year</u>						
<u>All Outfalls</u>						
Flow	MGD			*	once/year**	24 hr. estimate
Total Suspended Solids	mg/L	15		15	once/year**	grab
Biochemical Oxygen Demand ₅ (Note 1)	mg/L	20		20	once/year**	grab
pH - Units	SU	****		****	once/year**	grab
Total Phosphorus (Note 2)	mg/L			*	once/year**	grab
<u>Facilities with greater than 100,000 lbs but less than 750,000 lbs of production per year</u>						
<u>All Outfalls</u>						
Flow	MGD	*		*	once/quarter**	24 hr. estimate
Total Suspended Solids	mg/L	15		15	once/quarter**	grab
Biochemical Oxygen Demand ₅ (Note 1)	mg/L	20		20	once/quarter**	grab
pH - Units	SU	****		****	once/quarter**	grab
Total Phosphorus (Note 2)	mg/L			*	once/quarter**	grab
Temperature	°C	*		*	once/quarter**	grab
Ammonia as N***	mg/L	2.0		1.0	once/quarter**	grab
Chloride*****	mg/L	376		187	once/quarter**	grab
Copper, Total Recoverable*****	mg/L	0.04		0.02	once/quarter**	grab
MONITORING REPORTS SHALL BE SUBMITTED ANNUALLY; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 4 of 7	
					PERMIT NUMBER MO-G130000	
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		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Facilities with greater than 750,000 lbs of production per year</u>						
<u>All Outfalls</u>						
Flow	MGD	*		*	once/month**	24 hr. estimate
Total Suspended Solids	mg/L	15		15	once/month**	grab
Biochemical Oxygen Demand ₅ (Note 1)	mg/L	20		20	once/month**	grab
pH - Units	SU	****		****	once/month**	grab
Total Phosphorus (Note 2)	mg/L			*	once/month**	grab
Temperature	°C	*		*	once/month**	grab
Ammonia as N***	mg/L	2.0		1.0	once/month**	grab
Chloride*****	mg/L	376		187	once/month**	grab
Copper, Total Recoverable*****	mg/L	0.04		0.02	once/month**	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** Sampling shall be scheduled to coincide with rearing impoundment or raceway cleaning operations, or harvest activities if cleaning does not occur during the sampling period.
- *** When samples are taken for ammonia analysis, pH and Temperature measurements shall be taken at the same time.
- **** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- ***** When reporting for Chloride or Copper, if no Chloride or Copper bearing chemicals were used during the reporting period, report "0, none used". If Chloride or Copper bearing chemicals were used during the reporting period, report analysis as with other parameters.

Note 1 - For facilities which discharge to losing streams, or to areas determined by the department to be losing by the department, Biochemical Oxygen Demand₅ is limited to a monthly average of 10 mg/l and a weekly average of 15 mg/L.

Note 2 - In accordance with 10 CSR 20-7.015(3)(F), facilities which discharge to Lake Taneycomo and it's tributaries Total Phosphorus shall not exceed 0.5 mg/L monthly average. In accordance with 10 CSR 20-7.015(3)(G) facilities which discharge to the Table Rock Lake watershed (hydrologic units 11010001 and 11010002) Total Phosphorus shall not exceed 0.5 mg/L monthly average after November 30, 2003.

SPECIAL CONDITIONS

1. Water Quality Standards

- a. Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
- b. General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (5) There shall be no significant human health hazard from incidental contact with the water;
 - (6) There shall be no acute toxicity to livestock or wildlife watering;
 - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

2. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

REQUIREMENTS AND GUIDELINES

1. If land application is used to dispose of solids it shall be conducted as a plant nutrient application to assure efficient use of the resource. There shall be no land application of sludge within 300 feet of any well, sinkhole, losing stream or water supply withdrawal; 100 feet of any gaining streams or tributaries; or 50 feet of a dwelling or the property line.

REQUIREMENTS AND GUIDELINES (continued)

2. Chemical & Feed Use Reporting

Records of drug, chemical and feed use shall be submitted with the testing required in section A. All drugs and chemicals to which fish or production waters are exposed shall be reported except ice, oxygen and carbon dioxide. This includes pesticides, sodium chloride (salt), vinegar, or any other substance added to the water. In addition, prior approval must be obtained from the department before these drugs or chemicals are used except for those which have been approved by the USEPA for use in aquatic environments. For drugs and chemicals, the name and amount used since the previous report shall be submitted. For feed, the product name, chemical additives (such as antibiotics), and guaranteed analysis shall be submitted with the amount used since the previous report.

3. In order to obtain approval for use of a drug or chemical a permittee should submit the following information:

- a. method for exposing/treating fish or facility. Include concentration of the chemical and duration of exposure.
- b. method for disposal of the chemical.
- c. toxicity information for the chemical. The requirement for toxicity data may be waived for some drugs or chemicals on a case by case basis, and may also be waived if the chemical is not discharged.

The department may request additional information before approval is granted.

4. Feed, fertilizers and chemicals shall be stored in an area protected from contact with stormwater.

5. Mechanical devices associated with feeding or solids collection shall be maintained in good repair to reduce solids generation and subsequent discharge.

6. A Operation & Maintenance Plan shall be developed employing Best Management Practices (BMPs) for preventing the discharge of solids from the facility. This plan must be submitted to the Water Pollution Control Program for review and approval within 60 days of issuance of this permit to a facility. The plan should be specific to the facility and include:

- a. a sketch or diagram showing the flow of water through all production and treatment areas;
- b. methods for minimizing solids release during all cleaning activities, harvest, etc;
- c. type of treatment process used to reduce solids discharges, such as discharge to a vegetated swale, settling basin, etc;
- d. schedule of solids removal from treatment facility and disposal method for solids generated;
- e. schedule for amending/updating plan in the event of expansion or a change in operations.

7. All flow-through CAAPFs which require an NPDES permit constructed after October 1, 2003, or which undergo modification which requires a Construction Permit after October 1, 2003, must employ primary treatment of effluent prior to discharge to waters of the state. Appropriate primary treatment devices include, but are not limited to, quiescent zones, full flow sedimentation basins, off line sedimentation basins, and sock filters. Other solids treatment devices will be considered and approved by the department on a case by case basis.

8. All outfalls must be clearly marked in the field.

PERMIT TRANSFER

This permit may be transferred to a new owner by submitting an "Application for Transfer of Operating Permit" signed by the seller and buyer of the facility, along with the appropriate modification fee. The new owner must also submit, with the application, an updated Operation & Maintenance Plan for review.

TERMINATION OF PERMIT

If activities covered by this permit have ceased and this permit no longer applies, the permittee shall request termination of this permit. The permittee shall submit Form H, Termination of a General Permit.